

ABSTRACT

A method and apparatus for providing magnetic wear debris collection for an air bearing of a spindle motor in a hard disk drive is disclosed. A magnetic ring is provided near one end of the journal bearing forming an air bearing. In addition, the mating 5 surface of the air bearing is paramagnetic or ferromagnetic material. The magnetic ring, acting as a debris collector, collects debris from the air bearing to prevent deterioration of the air journal bearing. The journal bearing includes a mating surface. The mating surface may be of a paramagnetic or ferromagnetic material. A thrust bearing is provided to axially support the hub. The thrust bearing may be an oil bearing or an air 10 bearing.